

**COURSE OVERVIEW OE0075**  
**Ships Dry Docking & Repair**

**Course Title**

Ships Dry Docking & Repair

**Course Date/Venue**

Session 1: June 04-08, 2023/Boardroom 1,  
 Elite Byblos Hotel Al Barsha,  
 Sheikh Zayed Road, Dubai, UAE  
 Session 2: February 04-08, 2024/Venue 1  
 Meeting Room, Sheraton Cairo  
 Hotel & Casino, Cairo, Egypt



**Course Reference**

OE0075

**Course Duration/Credits**

Five days/3.0 CEUs/30 PDHs

**Course Description**



***This practical and highly-interactive course includes real-life case studies and exercises where participants will be engaged in a series of interactive small groups and class workshops.***

This course is designed to provide participants with a detailed and up-to-date overview of dry docking and underwater repairs as per class requirements. It covers the classification of dry docking system; the ramps, mechanical system of dry docking and slipways-shiplifts; the graving and floating docks; and the pre-dock inspections, dry dock selection and the preparation for the dock.



Further, the course will also discuss the classification survey, continuous survey cycle and special survey cycle; the annual survey, intermediate survey and docking survey; the severity levels of hull damage; and the commonly used terms such as ballast tank-coating conditioning.



During this interactive course, participants will learn the types of hull damage and defects; the development of hull defects; the area of stress concentration; the stress and loading, enhanced survey programmer and thickness measurement; the scope of docking surveys; the anchor and chain cables forward area shell plate and bilge keel; and the propeller, trail shaft, rudder, stern frame and undocking.

## Course Objectives

Upon the successful completion of this course, each participant will be able to:-

- Apply and gain an in-depth knowledge on dry docking and underwater repairs as per class requirement
- Understand the classification society requirements for dry-docking of vessels and under-water inspection requirements of class for in-water surveys in-lieu of dry-docking
- Understand the underwater welding procedures for the repair of hull
- Classify the dry docking system and discuss ramps, mechanical system of dry docking and slipways-shiplifts
- Identify graving and floating docks as well as carryout pre-dock inspections, dry dock selection and dock preparation
- Employ classification survey, continuous survey cycle, special survey cycle, annual survey, intermediate survey and docking survey
- Identify the severity levels of hull damage and the commonly used terms such as ballast tank-coating conditioning
- Recognize the types of hull damage and defects and the development of hull defects
- Determine the area of stress concentration, the stress and loading, enhanced survey programmer and thickness measurement
- Discuss the scope of docking surveys as well as anchor, chain cables, forward area, shell plate and bilge keel
- Explain the propeller, trail shaft, rudder, stern frame and undocking

## Exclusive Smart Training Kit - H-STK®



Participants of this course will receive the exclusive “Haward Smart Training Kit” (**H-STK®**). The **H-STK®** consists of a comprehensive set of technical content which includes **electronic version** of the course materials, sample video clips of the instructor’s actual lectures & practical sessions during the course conveniently saved in a **Tablet PC**.

## Who Should Attend


This course provides an overview of all significant aspects and considerations of dry docking and underwater repairs as per class requirements for fleet managers, technical managers, port engineers, ship engineers, marine surveyors, hull inspectors, hull designers, naval architects, dock masters, docking officers, dry dock crew, ship repair yards technical staff, UTM operators and others involved or interested in the dry docking of ships and vessels.

### Course Certificate(s)

Internationally recognized certificates will be issued to all participants of the course who completed a minimum of 80% of the total tuition hours.

### Certificate Accreditations


Certificates are accredited by the following international accreditation organizations: -

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The International Accreditors for Continuing Education and Training (IACET - USA)

Haward Technology is an Authorized Training Provider by the International Accreditors for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this authority, Haward Technology has demonstrated that it complies with the **ANSI/IACET 2018-1 Standard** which is widely recognized as the standard of good practice internationally. As a result of our Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for its programs that qualify under the **ANSI/IACET 2018-1 Standard**.

Haward Technology's courses meet the professional certification and continuing education requirements for participants seeking **Continuing Education Units (CEUs)** in accordance with the rules & regulations of the International Accreditors for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

Haward Technology Middle East will award **3.0 CEUs** (Continuing Education Units) or **30 PDHs** (Professional Development Hours) for participants who completed the total tuition hours of this program. One CEU is equivalent to ten Professional Development Hours (PDHs) or ten contact hours of the participation in and completion of Haward Technology programs. A permanent record of a participant's involvement and awarding of CEU will be maintained by Haward Technology. Haward Technology will provide a copy of the participant's CEU and PDH Transcript of Records upon request.

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British Accreditation Council (BAC)

Haward Technology is accredited by the **British Accreditation Council for Independent Further and Higher Education** as an **International Centre**. BAC is the British accrediting body responsible for setting standards within independent further and higher education sector in the UK and overseas. As a BAC-accredited international centre, Haward Technology meets all of the international higher education criteria and standards set by BAC.

### Course Instructor(s)

This course will be conducted by the following instructor(s). However, we have the right to change the course instructor(s) prior to the course date and inform participants accordingly:



**Captain Emilio Tapias**, MSc, MBA, BSc, is an **International Expert in Port Operations & Management** with over **40 years** of field experience. His expertise evolves in **Marine Terminal Operations & Management, Marine Survey, Offshore Survey, International Ship and Port Facility Security Code (ISPS) Code, Tanker Vetting Inspections, Registry & Inspection of Ship Tankers and Dry Cargo Vessels, Bridge Resource Management (BRM), Crude Oil Tanker & Gas Carrier, Dock & Terminal Operations, LPG/LNG, Ships Handling, Prevention and Management of Marine Corrosion, Marine Communication Systems, OCIMF, CIRE, CDI, COW/IG, ECDIS, GMDSS, HUET, VTS, ARPA, ISM, and ISPS**. Further, he is an expert in Detection & Control on Ships & Offshore Operation, Marine Pollution, Handling of Dangerous Goods in Ships & Terminals, Survival from Ships & Offshore Structures, Firefighting, Fire Prevention, Medical First Aid & Medical Care. Currently, he is the **Chairman of the International Ships Register in Spain** that provides marine consultancy services, investigation, registry and ships inspection.

During his career life, Captain Tapias has gained his technical and marine expertise through various challenging and key positions such as the **Marine Training Director, Marine Ship Chairman, Marine School Chairman, Master & Chief Officer, Consultant, Marine Auditor, Marine Surveyor, Nautical Inspector, Chemical Vessels Construction Supervisor, Ship Filing Agent, Ship Special Agent, Ship Registration Agent and Representative Agent & Inspector/Auditor** for several international companies.

Captain Tapias has a **Master** degree in **General Management** from the **Escuela International De Negocios – CEREM**, a **Master in Spanish Merchant Marine** and in **Marine Control** from the **Canary Government of Spain**, and an **MBA** from the **University of Complutense (Madrid)**. He holds a **Certification in Business Management** from the **Spanish Ministry of Industry** and in **Economic Sciences** from the **University Complutense, Madrid**. Further, he is a **Certified Marine Firefighter**, a **Certified Marine Surveyor, Port State Control Inspector and ISPS Officer**, a **Certified Auditor in Environmental Management**, a **Certified Instructor/Trainer** and a **Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership & Management (ILM)**. He has obtained **multiple certifications** in Firefighting, Survival Craft, Ship Tankers, Crude Oil Tankers, Gas Carriers, Chemical Carriers, Ships Handling, Bunkering, Marine Loss Control, Marine Pollution Control and many more. He has further delivered numerous trainings, workshops, courses and conferences worldwide.

### Course Fee

Dubai	<b>US\$ 8,000</b> per Delegate + <b>VAT</b> . This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.
Cairo	<b>US\$ 8,000</b> per Delegate + <b>VAT</b> . This rate includes Participants Pack (Folder, Manual, Hand-outs, etc.), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

### Training Methodology

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:-

- 30% Lectures
- 20% Workshops & Work Presentations
- 20% Case Studies & Practical Exercises
- 30% Videos, Software & Simulators

In an unlikely event, the course instructor may modify the above training methodology before or during the course for technical reasons.

### Accommodation

Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking.

### Course Program

The following program is planned for this course. However, the course instructor(s) may modify this program before or during the course for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

#### **Day 1**

0730 – 0800	<i>Registration &amp; Coffee</i>
0800 – 0815	<i>Welcome &amp; Introduction</i>
0815 – 0830	<b>PRE-TEST</b>
0830 – 0930	<b>Classification of Dry Docking Systems</b>
0930 – 0945	<b>Ramps</b>
0945 – 1000	<i>Break</i>
1000 – 1045	<b>Mechanical System of Dry Docking</b>
1045 – 1145	<b>Slipways - Shiplifts</b>
1145 – 1200	<i>Break</i>
1200 – 1330	<b>Graving Docks</b>
1330 - 1420	<b>Floating Docks</b>
1420 – 1430	<b>Recap</b>
1430	<i>End of Day One</i>

#### **Day 2**

0730 – 0930	<b>Pre-Dock Inspections</b>
0930 – 1030	<b>Analyzing, Predicting &amp; Planning Ship Service Performance, Machinery Parameters &amp; Hull Integrity in Long Term, Considering Engineering, Commercial, Environmental, Safety &amp; Technological Factors</b>
1030 – 1045	<i>Break</i>
1045 – 1145	<b>The Specification</b>
1145 – 1245	<b>Dry Dock Selection</b>
1245 – 1300	<i>Break</i>
1300 – 1345	<b>Preparation for Dock</b>
1345 - 1420	<b>Classification Survey</b>
1420 – 1430	<b>Recap</b>
1430	<i>End of Day Two</i>



**Day 3**

0730 – 0930	<i>Continuous Survey Cycle</i>
0930 – 1030	<i>Special Survey Cycle</i>
1030 – 1045	<i>Break</i>
1045 – 1145	<i>Annual Survey</i>
1145 – 1245	<i>Intermediate Survey</i>
1245 – 1300	<i>Break</i>
1300 – 1345	<i>Docking Survey</i>
1345 – 1420	<i>Severity Levels of Hull Damage</i>
1420 – 1430	<i>Recap</i>
1430	<i>End of Day Three</i>

**Day 4**

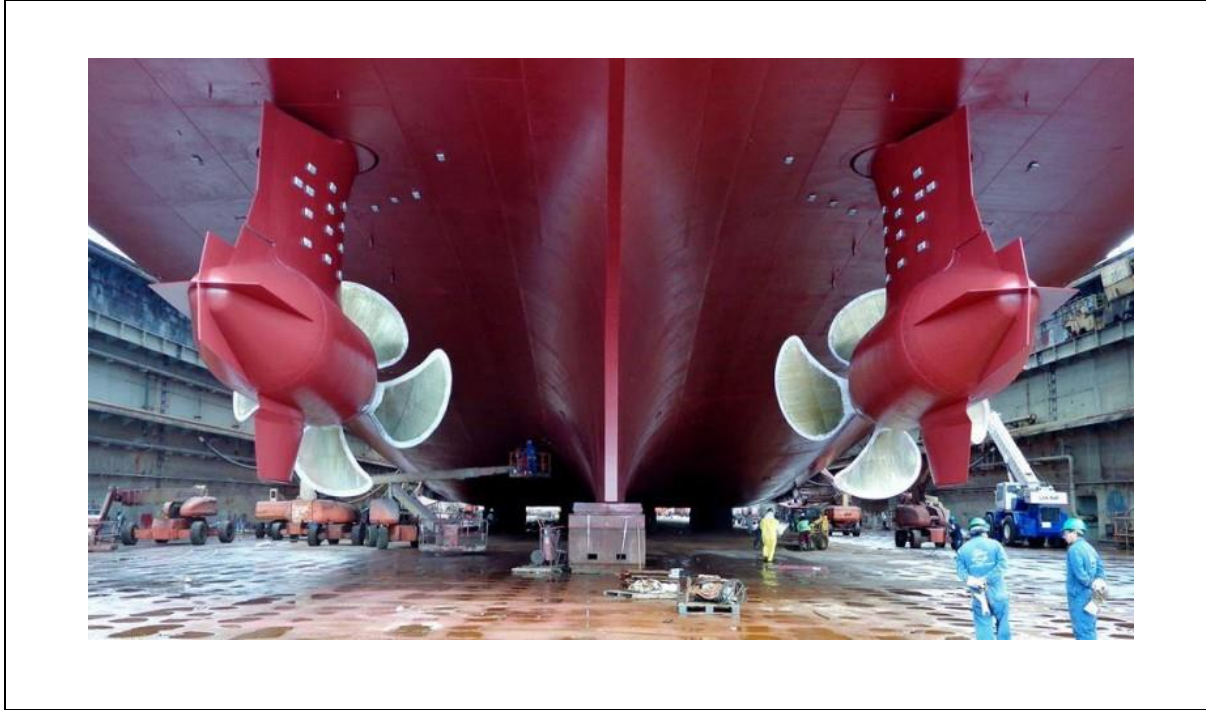
0730 – 0930	<i>Commonly Used Terms (Ballast Tank-Coating Condition)</i>
0930 – 1030	<i>Types of Hull Damage &amp; Defects</i>
1030 – 1045	<i>Break</i>
1045 – 1145	<i>Development of Hull Defects</i>
1145 – 1245	<i>Area of Stress Concentration</i>
1245 – 1300	<i>Break</i>
1300 – 1345	<i>Introducing Stress &amp; Loading</i>
1345 – 1420	<i>The Enhanced Survey Programmer</i>
1420 – 1430	<i>Recap</i>
1430	<i>End of Day Three</i>

**Day 5**

0730 – 0830	<i>Thickness Measurement</i>
0830 – 0930	<i>Scope of Docking Surveys</i>
0930 – 0945	<i>Break</i>
0945 – 1045	<i>Anchor &amp; Chain Cables, Forward Area, Shell Plate, Bilge Keel</i>
1045 – 1145	<i>Propeller &amp; Tail Shaft</i>
1145 – 1200	<i>Break</i>
1200 – 1300	<i>Rudder &amp; Stern Frame</i>
1300 – 1400	<i>Undocking</i>
1400 – 1415	<i>Course Conclusion</i>
1415 – 1430	<i>POST-TEST</i>
1430	<i>End of Course</i>

### **Practical Sessions**

This practical and highly-interactive course includes real-life case studies and exercises:-



### **Course Coordinator**

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